



Operating System/2™  
Standard Edition 1.0

Demonstration Package  
Installation and Operating  
Instructions



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# **IBM OS/2 Standard Edition 1.0 Demonstration**

This IBM OS/2 Standard Edition Demonstration package is the first OS/2 "live code" demonstration distributed by IBM to its dealers and marketing representatives. It is distributed to IBM remarketers under the terms and conditions of the IBM Demonstration License Agreement printed on the outside of the package.

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## **Demonstration Guidelines**

1. This package has been prepared to be demonstrated by IBM employees and representatives of IBM's Advanced Product Dealers and Industry Remarketers to potential customers. The package demonstrates the power and productivity of IBM OS/2. One of the most prominent features demonstrated is concurrent processing.

The Demonstration Script section of this document contains a set of instructions prepared to illustrate concurrency and background processing. It also contains script to go with the instructions.

The most beneficial way to run this demonstration is to learn the flow first, and use the script to understand what is happening at each step. The demonstrator should practice the instructions a few times to become proficient. This way, the demonstrator can switch from application to application with ease during the demonstration illustrating the value of concurrency.

2. This demonstration uses the following application software products:

### **Wordprocessing**

DisplayWrite 4/2™ - Version 1.0

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<sup>1</sup>DisplayWrite 4/2 is a registered trademark of International Business Machines Corporation.

## **Database**

Paradox® OS/2 by Borland International, Inc.

Copyright Borland International, Inc. 1988

Licensed Material – Program Property of Borland International, Inc.

All Rights Reserved<sup>2</sup>

## **Spreadsheet**

Quattro™ by Borland International, Inc.

Copyright Borland International, Inc. 1987

Licensed Material – Program Property of Borland International, Inc.

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3. The demonstration is structured to show the features and functions of OS/2. To this end, every attempt has been made to make the demonstration a turnkey operation. It is not the intention of this demonstration to show the features and functions of the applications involved. As such, there is no attempt made to teach the applications involved and the script must be followed very carefully. Also, applications may be incomplete – for example – printer drivers are not all included nor are dictionaries.
4. Borland International, Inc. has agreed to allow IBM representatives and dealers to demonstrate their products as outlined in the demonstration script. Questions about additional product functions should be addressed to Borland International, Inc. or their dealers. Duplication of this code is prohibited.
5. “SUPPLEMENTAL INFORMATION” at the end of this script provides information on the macros that are used within the demonstration scenario, as well as the procedure for restarting the demonstration.

## **IBM Employee Section**

This demonstration uses non-IBM products, therefore, IBM employees must comply with the January, 1988 Business Conduct Guidelines “Demonstrations Using Non-IBM Products”, page 16: “At business

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<sup>2</sup>Paradox is a registered trademark of Borland International, Inc.

<sup>3</sup>Quattro is a trademark of Borland International, Inc.

shows or events which will involve multiple prospects, a prominently displayed disclaimer **MUST** be exhibited, as follows”:

“To determine if the non-IBM portion of this demonstration software meets your specific requirements, contact Borland International, Inc.”

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## **Hardware/Software Requirements**

### **Hardware**

- IBM Personal System/2 Model 50, 60, or 80 with 5MB of memory and at least 6MB of available disk space in addition to that disk space required by OS/2.
- Parallel Printer (THE DEMONSTRATION HAS BEEN TESTED WITH AN IBM PROPRINTER)
- Any IBM Personal System/2 Display

### **Software**

You will need:

- The four IBM OS/2 Standard Edition 1.0 Program Diskettes (ship level)
- The three IBM OS/2 Demo Backup Diskettes (included with this package)

Follow the installation instructions below to install the demo onto the fixed disk.

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## **Demonstration Installation**

Before installing the demonstration programs, you must install IBM OS/2 Standard Edition 1.0. Follow the OS/2 installation instructions in the OS/2 User's Guide (part of the OS/2 ship group). If PC DOS is already installed on the fixed disk, and you want to keep its files, follow the special installation instructions on the Read Me First card in the OS/2 package. If you wish, you may reformat the fixed disk, but this won't be necessary unless the disk is nearly full.

## To Install OS/2:

### 1. Install the IBM OS/2 Operating System:

- a. Boot the OS/2 Installation Diskette in Drive A:.
- b. Follow the instructions on the screen to install IBM Operating System/2, and accept all of the defaults during the installation process except:

Select the IBM mouse if a mouse is being used.

- c. When you receive the message "OS/2 has been successfully installed", reboot the system from the fixed disk, <Ctrl + Alt + Del>.
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- ### 2. After installing the operating system, install the demonstration diskettes (which contain files in the OS/2 BACKUP format):

**Note:** The demo installation procedure assumes that no OS/2 applications have been previously installed. The CONFIG.SYS, STARTUP.CMD, AUTOEXEC.BAT, and Program Selector Installation files will be replaced.

- a. Using the cursor key, Select "OS/2 Command Prompt" under Start a Program and press ENTER.
- b. Place the diskette labeled "Demo Backup #1" in drive A:, and type the following at the [C: \] prompt:

[C:\] a:\demo\install (press <ENTER>)

Several files will be copied onto your system from this diskette.

- c. When prompted for backup diskette 01, simply press ENTER, as it is already in the A: drive.
- d. Continue with the prompts to complete the restore process for backup diskettes 2 and 3. When all diskettes have been restored, reboot the system from the fixed disk. All demonstration programs will be automatically started.

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## Pre-Demo Preparation

(Release NUM LOCK)

1. At the Program Selector Screen, move the cursor to DOS Command Prompt under Switch to a Running Program, and press <ENTER>.

This will automatically activate QUATTRO which runs in the DOS compatibility mode. At the initial QUATTRO screen, which is represented by an empty spreadsheet, type:

/fr <ENTER>

This will retrieve the 1987 Jeans Market Share - Males spreadsheet.

2. Press <ALT + ESC> three times to switch to DisplayWrite 4/2. You will see the DisplayWrite Logo. To access the main menu of DisplayWrite 4/2, press ENTER.

Move the cursor to highlight "REVISE Document", and press ENTER. Enter DEMO (or DEMO.DOC) for the Document name, and press ENTER. This will retrieve a document and display the top of the document on the display screen.

3. Press <CTRL + ESC> to return to the Program Selector Screen.

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## Demonstration Script

1. The demonstration begins at the Program Selector Screen.

"The IBM OS/2 Standard Edition 1.0 provides significant new functions for the workstation user. New applications written to take advantage of OS/2 functions run concurrently. This gives you increased productivity because time previously spent starting and stopping applications in a single application environment can now be spent more productively. OS/2 also performs concurrent processing, which allows the user to initiate programs (e.g. printing, paginating, etc.) and then switch to another program to start other work.

"The Program Selector offers an easy user interface to start applications, and to access others which are currently running. The list on the left shows programs currently installed on disk, while the one on the right indicates which applications are currently running."

"OS/2 offers a DOS compatibility mode, which allows existing PC DOS applications to run under OS/2, one at a time. When I power-on the system, the DOS compatibility mode is active as a session."

"To demonstrate concurrent processing of applications, I will be revising a document using DisplayWrite 4/2, an IBM application

that has been updated to take advantage of new functions in OS/2. I will also be using two application software packages from Borland International, Inc., PARADOX OS/2, a database application running in OS/2 protect mode, and QUATTRO, a spreadsheet running in the DOS compatibility mode. The three applications I'll be using, DisplayWrite 4/2, PARADOX OS/2, and QUATTRO have a combined code size of approximately 3 megabytes. OS/2 can address up to 16 megabytes of real memory and each program can itself use all available memory, with OS/2 managing the use of available memory.

2. Highlight the first "PARADOX" selection in the Switch to a Running Program list, and press ENTER.

Then Enter:

<Ctrl + V> to View 3 tables

"The first application I'll be using is PARADOX OS/2, Borland's relational database product. I have the ability to view three tables involved in a market research application. These tables are being used to track the changes in market share among four clothing manufacturers. The "People" Table displays biographic and demographic data of about 3500 survey respondents, while the "Survey" table is used to show the manufacturers from which these respondents have purchased products during the past year. The "Product" table translates the manufacturer code into the manufacturer's name". I have displayed the last few records for each table".

3. Press <Ctrl + R> to produce a Report by Zip Codes.

"I will now print a report from the "People" Table which will give me a listing of all respondents sequenced by the first two digits of Zip Code areas".

"In a DOS environment, I would need to wait for the report to finish before beginning another task. However, the concurrent processing of applications supported with OS/2 allows me to begin another task while the report is running in the background."

**Note:** This report takes about 3 minutes to formulate and print — continue immediately.

4. Press <ALT + ESC> once to access the second copy of PARADOX OS/2.



Press <Ctrl + J> to list all entries in the people database beginning with "Jim".

Press F2 for the query results.

"OS/2 allows multiple copies of the same program to reside in memory. While the report is printing, there are other query functions that I need to perform. This query will produce all of the respondents whose first name begins with Jim. The report format will display three fields from the file".

5. Press <ALT + ESC> once to hotkey to DisplayWrite 4/2. This key combination is like the "channel advance" button on a TV set, skipping the Program Selector menu.

"The document is approximately 270 pages. Due to many revision cycles, the document needs to be reformatted to produce even margins and page lengths".

6. Press F2 (End/Save) and select 4, (Paginate, End, and Save). Press <ENTER> to select the Paginate Document Menu, and press <ENTER> again to accept the pagination defaults.

"I'll start paginating as a background function so that I can complete the survey report. Again, I'm taking advantage of the concurrent processing environment of OS/2."

"While the database report is printing in the background, and the DisplayWrite document is paginating, I can continue to complete my other reports."

**Note:** When the report has been formulated and begins to print, you may notice that, while in the background, the printer will hesitate. This is because the application in the foreground is given priority so that it will seem, to the user at the keyboard, to be the only application in the system. Switching to the printing application demonstrates this feature as the printer will speed up.

7. Press <ALT + ESC> once to switch to QUATTRO.

"The spreadsheet in QUATTRO summarizes, by quarter, the market share data for all male respondents in our survey by manufacturer name".

8. Press F10 to generate a graph.

"I also have the ability to display the data in graph form, which gives a visual representation of the market share trends. Notice that only the data for the first three quarters is available."

9. Press the Space Bar to return to the spreadsheet.

"The database in PARADOX OS/2 provides us with the information required to compute the 4th quarter market share".

10. Press <ALT + ESC> twice to return to the second PARADOX session (which contains the query for respondents whose names begin with Jim. . .)

"I'll simply hot key over to the PARADOX OS/2 session in which I was performing the query function, and request another query. Notice that my report is still formulating/printing from the first PARADOX OS/2 session."

11. Press <Ctrl + Q> to bring up the query format.

Press F2 to produce the query results.

"In this query, I'm asking PARADOX OS/2 to calculate the number of males who have purchased products in the 4th quarter of 1987, and to translate each manufacturer code into the manufacturer name. The highlighted letters are called "examples", and they tell PARADOX OS/2 how to link the three tables together".

"The result of the query provides me with the data required to complete the spreadsheet".

"Another advantage of OS/2 is that the file structure is the same as in DOS. This allows me to interchange data between OS/2 applications and DOS applications. I will be able to use the results of this query in the QUATTRO spreadsheet".

**Note:** Wait until the query completes processing before continuing.

12. Press <Alt + ESC> once to return to DisplayWrite 4/2.

"Notice that the DisplayWrite Document is still paginating in the background."

Press < Alt + ESC> once again to return to QUATTRO.

"The QUATTRO spreadsheet is an application running under the DOS compatibility mode of OS/2. One of the features of QUATTRO is that it allows me to set up a procedure which will automatically move data from a PARADOX file into the QUATTRO spreadsheet".

13. Press F8, move the cursor to RETRIEVE, and press <ENTER>.

"I will now RETRIEVE the data from the database".

14. Press F8, and <ENTER> to select the MOVE function.

"Using a stored procedure, I am able to MOVE the figures into the spreadsheet to complete the 4th quarter market share data".

15. Press F10 to show the graph.

"I now redisplay the graph with the completed 4th quarter statistics".

16. Hotkey, <ALT + ESC>, to toggle through the four concurrent sessions.

"Now let's check on the other tasks".

"This session was the printed report giving us a listing of all respondents by zip code. The next session is the query results used to complete the spreadsheet data. This session contained the DisplayWrite document which was paginating. And finally, we used the DOS Compatibility mode to move OS/2 application data into a DOS spreadsheet".

17. Press <Ctrl + ESC> to return to the Program Selector.

OS/2 has allowed me to work with four programs concurrently. By taking advantage of concurrent processing, I'm increasing productivity. The program selector provides an easy user interface for working with the programs under OS/2, but I can also quickly hotkey, or toggle between them.

18. Press F1 to access HELP.

Press F5 to show the INDEX function.

Move the cursor to the "Key Assignments", and press the Space Bar.

"In addition, an extensive on-line help facility will assist a new user to become productive more quickly with OS/2."

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## Closing

"Today I've demonstrated the flexibility of concurrent processing by being able to work with four programs concurrently: DisplayWrite 4/2, QUATTRO, a spreadsheet application, and two sessions of PARADOX OS/2, a database program. The combined program and data size of the applications in this demonstration is greater than 3 megabytes, illustrating the large memory addressability of OS/2. The DOS compatibility environment assists in the transition from DOS to OS/2, and the on-line help facility adds ease-of-use function for the new user."

"Do you have any questions on OS/2, or are there any additional OS/2 functions I can demonstrate for you?"

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## Restore the Demo

To restore the demo for the next demonstration:

1. Press <ESC> three times to remove the HELP panels.
2. Highlight "DOS Command Prompt" under "Switch to a Running Program". Press ENTER to access the graph in QUATTRO.
  - a. Press the Space Bar once to return to the spreadsheet.
  - b. Enter:  
  
/fr and <ENTER>
3. Press <ALT + ESC> twice to return to the second PARADOX session.
4. Press <ALT + F8> to clear the workspace.

5. Press <ALT + ESC> once to switch to DisplayWrite 4/2.
  - a. Move the cursor to "Revise Document" and press ENTER.
  - b. Press ENTER to select DEMO.DOC again.
6. Press <Ctrl + ESC> to return to the Program Selector.

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## Accidental Power-Off Recovery

1. When you power off the system, be sure you are at the Task Selection Menu in DisplayWrite. If you should accidentally power off while in the document, the next time the document is accessed, you will receive the prompt "Document in Use". If this should happen:
  - a. Press <ESC> from the Revise Document Name screen.
  - b. Select "Utilities" (Copy, Erase) from the Task Selection Menu, and then "Recover".
  - c. Type the document name to recover, which is DEMO.DOC, and press <ENTER>.
  - d. Take the default (press <ENTER>) to copy over the existing document.
  - e. Select "Erase" from the "Utilities" menu.
  - f. Enter the temporary file names to be erased:  
  
DEMO.\$\$\* <ENTER>  
  
Press <ENTER> again to confirm.
  - g. Press <ESC> to return to the DisplayWrite 4/2 Main Menu.
  - h. Press <CTRL + ESC> to return to the Program Selector.

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# Supplemental Information

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## Paradox OS/2

### Paradox, Session 1

1. <Ctrl + V> calls a macro which contains the keystrokes to View three tables in the PARADOX OS/2 relational database.
  - a. The PEOPLE table has biographic and demographic data about survey respondents. There are 3497 records in this table; the last five records are displayed.
  - b. The SURVEY table is used to show each respondent's purchase of a manufacturer's product, the manufacturer is represented by a specific manufacturer code.
  - c. The PRODUCT table translates each manufacturer code into the respective manufacturer's name.
2. <Ctrl + R> calls a macro which contains the keystrokes to produce a report from the data in the PEOPLE table which will provide the number of survey respondents by Zip Code area.

### Paradox Session 2

1. <Ctrl + J> calls a macro which contains the keystrokes to produce a query from the PEOPLE table which will display all respondents whose first name begins with Jim..., and to format the query to display only the following fields: Respondent ID, Name, and Address.
2. <F2> processes the query to enable the results to appear on the screen.
3. <Ctrl + Q> calls a macro which contains the keystrokes to produce a query which asks PARADOX OS/2 to calculate the number of male respondents in the survey who have purchased these products in the 4th quarter of 1987, and to translate each manufacturer code into the respective manufacturer's name. It also produces a file which is used to link the data with the QUATTRO spreadsheet.

The highlighted letters are called "examples", and they tell PARADOX OS/2 how to link the three tables together.

**calc count** - calculate the total number of respondents, and place that total in the query answer.

**M** - select all male respondents.

**x** - link the PEOPLE and SURVEY tables together by the respondent ID field.

**m** - link the SURVEY and PRODUCT tables together by the Manufacturer Code field.

**>9/30/87** - select all respondents during the 4th quarter of 1987

**✓** - insert the manufacturer name in the query answer.

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## Quattro

1. **/fr <ENTER>** - retrieves the spreadsheet DEMO.WKQ.
2. **RETRIEVE** - retrieves the query answer from the PARADOX 2 session.
3. **MOVE** - moves the query answer from the bottom of the spreadsheet to the appropriate column in the spreadsheet.

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## Additional Commands

If you would like to begin the demo from the very beginning, showing how each program is activated, use the following commands:

### Paradox OS/2

1. Press **<Alt + F8>** to clear the workspace.

## **Quattro**

1. Enter:

/q and <ENTER>

This will return you to the DOS prompt.

2. Using this procedure, you will need to type:

q and <ENTER>

to activate QUATTRO.

## **DisplayWrite 4/2**

1. Press <ESC> to leave the DisplayWrite 4/2 main menu.
2. Press <ENTER> to return to the Program Selector.





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